Additel 917/918

Pneumatic Pressure Test Pump User's Manual

[Version number:1307V01]

Warnings and cautions

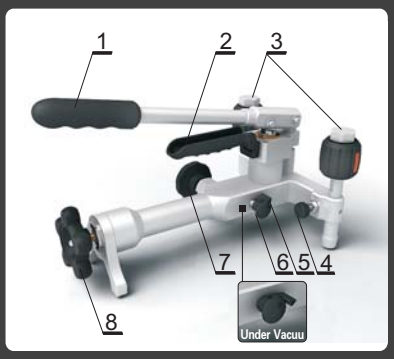
- Be careful when using with small chamber or low pressure gauges not over pressure the gauges.
- Do not exceed 1500 psi for 917 (2000 psi for 918) safety limit.
- Do not shift between pressure and vacuum mode while the pump is under pressure. Open the vent valve as well as the bypass valve before switching between vacuum and pressure modes.
- Do not over tighten gauges or connectors. Lightly hand tight is sufficient.
- Store the pump in a dry non–corrosive environment.
- Additel is not responsible for problems or damage resulting from improper use or operation of the equipment.

Specification

- **Pressure range:** 917: 4 psi (0.95 bar) vacuum to 1000 psi (70 bar) positive pressure
  918: 4 psi (0.95 bar) vacuum to 1500 psi (105 bar) positive pressure
- **Temperature:** (0~50) ℃
- **Humidity:** < 85%RH
- **Fine adjust :** 10 Pa (0.1 mbar)
- **Maximum pressure:** 917: 1500 psi (105 bar)
  918: 2000 psi (140 bar)
- **Pressure media:** Air
- **Size:** Height: 5.5" (140 mm);
  Base: 12.4" (315 mm) x 7.8" (198 mm)
- **Weight:** 5.7 lb (2.6 kg)

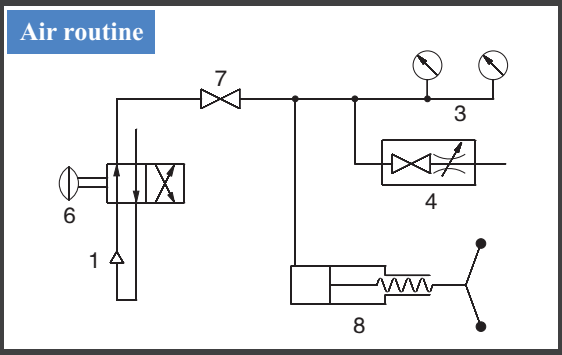
Remark: *If local atmosphere pressure is 1 bar, the vacuum can reach to -0.95 bar; If local atmosphere pressure is P, the vacuum can reach to - 0.95P.*

Configuration & Air routine



1 – Pressure lever for pre–pressurization
2 – Handle
3 – 1/4 NPT plug
4 – Release valve
(clockwise to close/ counterclockwise to open)
5 – Pressure lock
6 – Pressure/vacuum selector
(Pressure: pull it out; Vacuum: push it in
⚠ DO NOT switch under pressure or vacuum to avoid damage)
7 – Isolation valve (Bypass valve)
(isolates the calibration from the one way valve)
8 – Fine adjustment handle
(clockwise to increase pressure)

Air routine

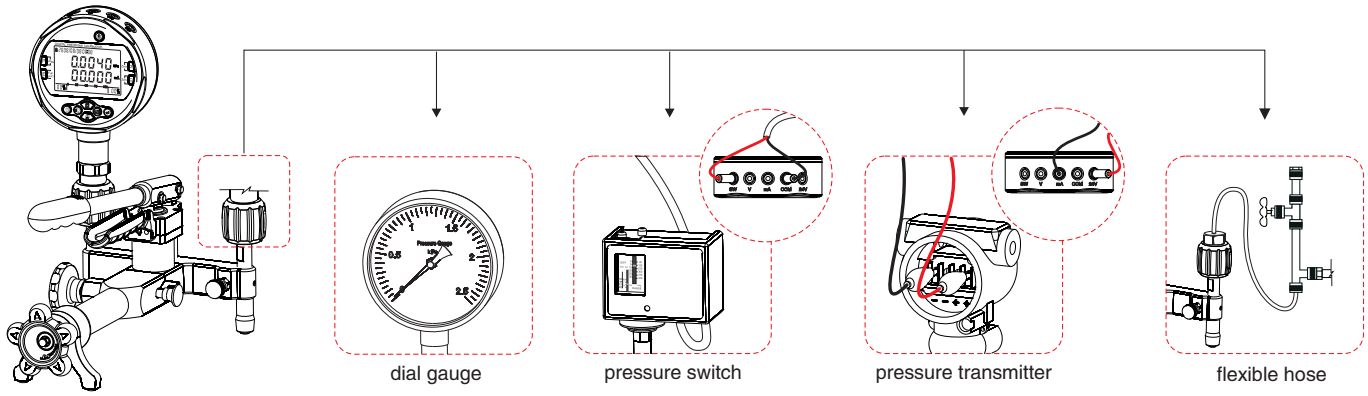


Troubleshooting

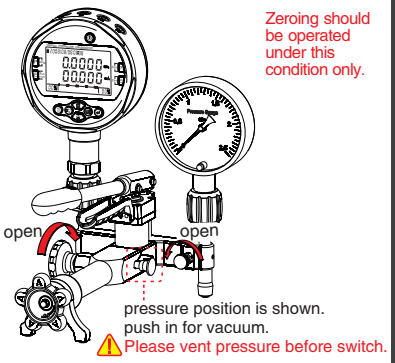
Problems	Causes	Solutions
Hard to use pressure lever	The isolation valve is not open.	Open the isolation valve.
Hard to pressurize	A. Release valve is not closed.	Close the release valve.
	B. The sealing ring is broken or loosen.	Replace sealing ring.
	C. P/V selector is in wrong position.	Pressure: pull it out; Vacuum: push it in.
Hard to use fine adjustment handle	A. The isolation valve is not closed.	Close the isolation valve.
	B. The gauges is not tightened.	Tighten the reference gauge or the gauge under test.
	C. The sealing ring is aged or frayed.	Replace sealing ring.
	D. The connector type is unmatched.	Use the right and suitable adapter.
	E. Particle is blocking the air route.	Pressurize and release pressure quickly several time to try and blow the particle out. Disassembly and cleaning may be necessary.
Fittings do not turn into pump easily	A. Likely tightened too much!	Do not apply too much force to close the fittings and gauges.
	B. The new pump is not smooth.	The new pump needs time to abrade.
	C. The threads have no lubrication.	Lubricate the threads.

Basic Operation

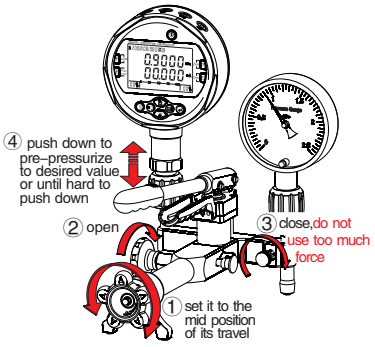
Connection A



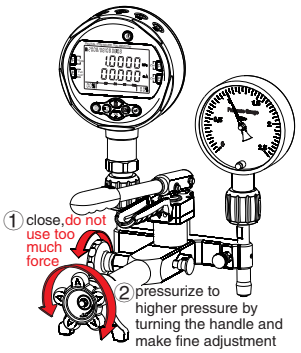
Open to atmosphere B



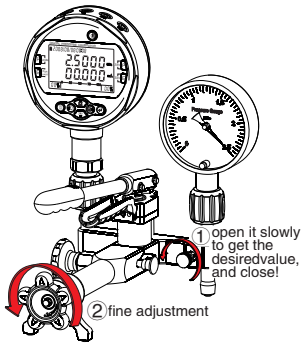
Pre-pressure C


④ push down to pre–pressurize to desired value or until hard to push down
② open
③ close,do not use too much force
① set it to the mid position of its travel

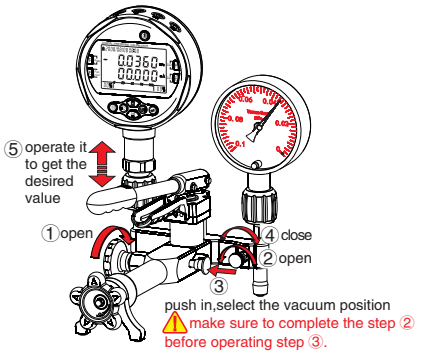
Pressurizing process and fine adjustment D



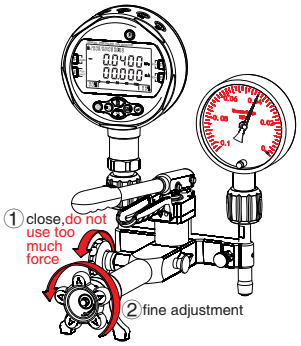
Decrease pressure process E



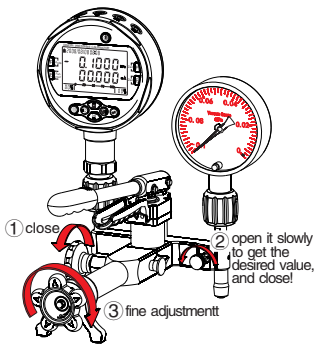
Vacuum process F


⑤ operate it to get the desired value
① open
④ close
② open
③
push in,select the vacuum position
make sure to complete the step ② before operating step ③.

Vacuum and fine adjustment G



Decrease vacuum process H



Remarks:

A: Additel has made a concerted effort to provide complete and current information for the proper use of this equipment. The product specifications and other information contained in this manual are subject to change without notice.

B: Above pictures are just for reference.

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